

ABSTRACT OF THE DISCLOSURE

A cast component with high hot-process mechanical strength and high creep strength in the 230-380°C temperature range, made of aluminum alloy containing, in wt %: Mg < 0.1, and preferably < 0.03; Si: 4.5-10; Cu: 2.0-5.0 and preferably 3.0-4.0; Ni < 0.4 and preferably < 0.1; Ti: 0.05-0.25 and preferably 0.08-0.20; Zr: 0.05-0.25 and preferably 0.12-0.20; Fe: < 0.9 and preferably < 0.3; Zn < 0.3 and preferably < 0.1; optionally V: 0.02-0.30 preferably 0.04-0.20; Mn: 0.1-0.5 preferably 0.15-0.40; Hf, Nb, Ta, Cr, Mo and/or W: 0.03-0.30; other elements < 0.10 each and < 0.30 in total, the rest being aluminum. The alloy is used for the manufacture of internal combustion engine cylinder heads.